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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A container for selectably changing the temperature of its contents by mixing a first reactant with a second reactant, comprising:

a container body having a material chamber for containing said contents;

a thermic module connected to one end of said container body and extending at least partially into said container body, an opposite end of said container body having a container opening into said material chamber, said thermic module comprising an actuator, a piercing member movable between a retracted position and an extended position in response to a force placed on a portion of said actuator, a breakable barrier, and first and second chambers for containing said reactants separated from one another by said breakable barrier, wherein a distal end of said piercing member breaks said breakable barrier when said elongated member is in said extended position to allow mixing of said reactants;

a full panel pull-off mounted to one of said thermic module or to said one end of said container, said full panel pull-off completely covering said actuator, said full panel pull-off having a removable pull-off lid, said full panel pull-off having sufficient strength and rigidity to prevent actuation of said actuator until said pull-off lid is first removed, said pull-off lid being configured to be removable by breaking the material connecting it to the remainder of the full panel pull-off; and

a lid mounted to said opposite end of said container body.

2. (canceled)

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3. (original) The container of claim 1 wherein one of said chambers is a heat exchanger portion which extends proximally into the container body, said heat exchanger portion having a pleated wall and at least one circumferential groove on the edge of said pleated wall.

4. (currently amended) ~~The container of claim 3 wherein said pleated wall has a plurality of folds around a circumference of said heat exchanger portion and said folds have radii of at least .05 inches~~

A container for selectably changing the temperature of its contents by mixing a first reactant with a second reactant, comprising:

a container body having a material chamber for containing said contents;

a thermic module connected to one end of said container body and extending at least partially into said container body, an opposite end of said container body having a container opening into said material chamber, said thermic module comprising an actuator, a piercing member movable between a retracted position and an extended position in response to a force placed on a portion of said actuator, a breakable barrier, and first and second chambers for containing said reactants separated from one another by said breakable barrier, wherein a distal end of said piercing member breaks said breakable barrier when said elongated member is in said extended position to allow mixing of said reactants;

at least one of said first and second chambers being a heat exchanger portion which extends proximally into the container body, said heat exchanger portion having a pleated wall having a plurality of folds around a circumference of said heat exchanger portion, said folds having radii of at least .05 inches, and said heat exchanger portion having at least one circumferential groove on the edge of said pleated wall,

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a full panel pull-off mounted to one of said thermic module or to said one end of said container, said full panel pull-off completely covering said actuator, said full panel pull-off having a removable pull-off lid, said full panel pull-off having sufficient strength and rigidity to prevent actuation of said actuator until said pull-off lid is first removed; and

a lid mounted to said opposite end of said container body.

5. (currently amended) ~~The container of claim 1 wherein said first chamber is a heat exchanger portion which extends into said container body and said container further comprises a vent hole which completes a fluid path from said heat exchanger portion to the ambient atmosphere surrounding the exterior of said container while said full panel pull-off is installed~~

A container for selectably changing the temperature of its contents by mixing a first reactant with a second reactant, comprising:

a container body having a material chamber for containing said contents;

a thermic module connected to one end of said container body and extending at least partially into said container body, an opposite end of said container body having a container opening into said material chamber, said thermic module comprising an actuator, a piercing member movable between a retracted position and an extended position in response to a force placed on a portion of said actuator, a breakable barrier, and first and second chambers for containing said reactants separated from one another by said breakable barrier, wherein a distal end of said piercing member breaks said breakable barrier when said elongated member is in said extended position to allow mixing of said reactants;

said first chamber being a heat exchanger portion which extends into said container body;

a full panel pull-off mounted to one of said thermic module or to said one end of said container, said full panel pull-off completely covering said actuator, said full panel pull-off having a

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removable pull-off lid, said full panel pull-off having sufficient strength and rigidity to prevent actuation of said actuator until said pull-off lid is first removed;

said container having a vent hole which completes a fluid path from said heat exchanger portion to the ambient atmosphere surrounding the exterior of said container while said full panel pull-off is installed; and

a lid mounted to said opposite end of said container body.

6. (original) The container of claim 5 wherein said thermic module comprises a thermic module cap disposed distal to said heat exchanger portion and wherein said fluid path extends from said heat exchanger portion between a wall of said container and a wall of said thermic module cap to said vent hole.

7. (original) The container of claim 1 wherein said first chamber comprises a heat exchanger portion which extends proximally into said container body and a thermic module cap disposed distal to said heat exchanger portion, said thermic module cap comprising said second chamber, said breakable barrier and said piercing member.

8. (original) The container of claim 7 wherein said breakable barrier comprises a sheet of material which is attached to said thermic module cap to enclose said second chamber.

9. (original) The container of claim 7 wherein said breakable barrier is attached to a top surface of said thermic module cap and also to the outside walls extending from said top surface.

10. (currently amended) ~~The container of claim 1 wherein said container body has an internal side wall and an external side wall and said external side wall has a groove extending from at or near the bottom of said container body up the side of said external side wall in a helical shape~~

A container for selectably changing the temperature of its contents by mixing a first reactant with a second reactant, comprising:

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a container body having a material chamber for containing said contents, said container body having an internal side wall and an external side wall and said external side wall has a groove extending from at or near the bottom of said container body up the side of said external side wall in a helical shape;

a thermic module connected to one end of said container body and extending at least partially into said container body, an opposite end of said container body having a container opening into said material chamber, said thermic module comprising an actuator, a piercing member movable between a retracted position and an extended position in response to a force placed on a portion of said actuator, a breakable barrier, and first and second chambers for containing said reactants separated from one another by said breakable barrier, wherein a distal end of said piercing member breaks said breakable barrier when said elongated member is in said extended position to allow mixing of said reactants;

a full panel pull-off mounted to one of said thermic module or to said one end of said container, said full panel pull-off completely covering said actuator, said full panel pull-off having a removable pull-off lid, said full panel pull-off having sufficient strength and rigidity to prevent actuation of said actuator until said pull-off lid is first removed; and

a lid mounted to said opposite end of said container body.

11. (previously presented) A container for selectably changing the temperature of its contents by mixing a first reactant with a second reactant, comprising:

a container body having a material chamber for containing said contents and a container opening for removing said contents from said container body;

a thermic module thermally coupled to said container body, an opposite end of said container body having a container opening into said material chamber, said thermic module comprising an

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actuator, and first and second chambers for containing said reactants separated from one another until the actuator is actuated,

wherein said first reactant comprises calcium oxide particles in which at least 75% of said particles filter through a #7 mesh and are captured by a #14 mesh.

12. (previously presented) The container of claim 11 wherein said calcium oxide particles comprise a mixture of calcium oxide particles of differing sizes in which at least 75% of said particles filter through a #7 mesh and are captured by a #14 mesh.

13. (currently amended) A container for selectably changing the temperature of its contents by mixing water and calcium oxide particles, comprising:

a container body having a material chamber for containing said contents and a container opening for removing said contents from said container body;

a thermic module thermally coupled to said container body, an opposite end of said container body having a container opening into said material chamber, said thermic module comprising an actuator, and first and second chambers for containing said reactants separated from one another until the actuator is actuated[.];

wherein the ratio of water to calcium oxide by mass is about 1.15 parts water to 4 parts calcium oxide and said first reactant comprises calcium oxide particles in which at least 75% of said particles filter through a #7 mesh and are captured by a #14 mesh.

14. (canceled)

15. (previously presented) The container of claim 13 wherein said calcium oxide particles comprise a mixture of calcium oxide particles of differing sizes in which at least 75% of said particles filter through a #7 mesh and are captured by a #14 mesh.

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16. (currently amended) A method of selectably changing the temperature of the contents of a container comprising the steps of:

providing said container thermally coupled with a thermic module having first and second reactants;

removing a pull-off lid of a full panel pull-off mounted to said container[;]said pull-off lid being configured to be removable by breaking the material connecting it to the remainder of the full panel pull-off, said full panel pull-off having sufficient strength and rigidity to prevent actuation of an actuator until said pull-off lid is first removed;

actuating said actuator to cause the mixing of said first and second reactants.

17. (original) The method of claim 16 wherein said first reactant comprises water and said second reactant comprises calcium oxide particles.

18. (previously presented) The method of claim 17 wherein said first reactant comprises calcium oxide particles in which at least 75% of said particles filter through a #7 mesh and are captured by a #14 mesh.

19. (previously presented) The method of claim 17 wherein said calcium oxide particles comprise a mixture of calcium oxide particles of differing sizes in which at least 75% of said particles filter through a #7 mesh and are captured by a #14 mesh.

20. (original) The method of claim 17 wherein the ratio of water to calcium oxide by mass is about 1.15 parts water to 4 parts calcium oxide.

21. (canceled)

22. (currently amended) ~~The container of claim 8 wherein said breakable barrier is attached to said thermic module cap by one of thermal bonding, ultrasonic bonding or use of an adhesive~~

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A container for selectably changing the temperature of its contents by mixing a first reactant with a second reactant, comprising:

a container body having a material chamber for containing said contents;

a thermic module connected to one end of said container body and extending at least partially into said container body, an opposite end of said container body having a container opening into said material chamber, said thermic module comprising an actuator, a piercing member movable between a retracted position and an extended position in response to a force placed on a portion of said actuator, a breakable barrier, and first and second chambers for containing said reactants separated from one another by said breakable barrier, said breakable barrier comprising a sheet of material which is attached to said thermic module cap to enclose said second chamber, said breakable barrier being attached to said thermic module cap by one of thermal bonding, ultrasonic bonding or use of an adhesive, wherein a distal end of said piercing member breaks said breakable barrier when said elongated member is in said extended position to allow mixing of said reactants;

said first chamber comprising a heat exchanger portion which extends proximally into said container body and a thermic module cap disposed distal to said heat exchanger portion, said thermic module cap comprising said second chamber, said breakable barrier and said piercing member;

a full panel pull-off mounted to one of said thermic module or to said one end of said container, said full panel pull-off completely covering said actuator, said full panel pull-off having a removable pull-off lid, said full panel pull-off having sufficient strength and rigidity to prevent actuation of said actuator until said pull-off lid is first removed; and

a lid mounted to said opposite end of said container body.

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23. (original) The container of claim 8 wherein said breakable barrier is attached to said thermic module cap by thermal bonding and the thermal bonding process creates a radiused edge on a top surface of said thermic module cap.

24. (original) The container of claim 1 further comprising a visual indicator which indicates that the indicator has reached a predetermined temperature.

25. (original) The container of claim 24 wherein said visual indicator comprises a spot of thermochromatic ink on the surface of said container.